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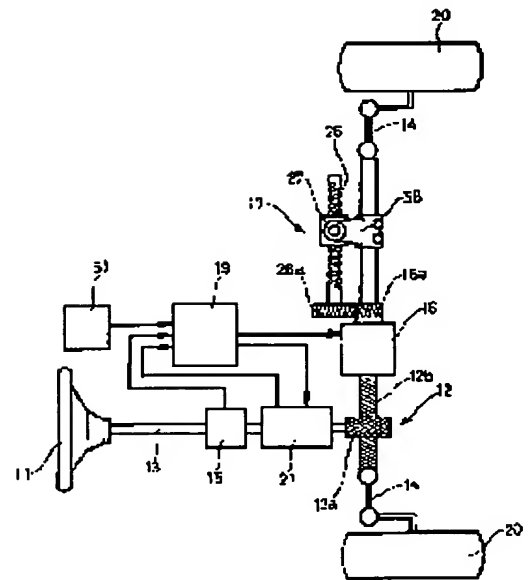
SHIMIZU YASUO

(54) MOTOR-DRIVEN POWER STEERING DEVICE

(57)Abstract:

PURPOSE: To reduce burden on a driver without dropping the steering feeling by interposing a steering angle ratio changing means, which is to change the ratio of tone rotation angle of a steering wheel to the turned angle of the wheels in steering, between an electric motor and a torque sensing means in the steering line.

CONSTITUTION: A steering wheel 11 is coupled with a steering gear mechanism 12 via a steering shaft 13 etc., which is fitted with a torque sensor 15 which senses the steering force. The steering gear mechanism 12 is fitted with an electric motor 16 coaxially with the rack 12b of the gear mechanism 12. Therein a steering angle ratio changing mechanism 21 is mounted on the side nearer the steering mechanism 12 than the torque sensor 15. The steering angle ratio changing mechanism 21 is controlled by a controller 19 on the basis of the results from sensing by the torque sensor 15, a steering angle ratio sensor out of illustration, and a car speed sensor 51. This enables changing properly the ratio of the turned angle of the steering wheel 11 to the turned angle of the wheels 20 in steering.



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